

Iowa Department of Public Health

Overview: Data Collection Software Systems and Technology Reinvestment Fund Requests

Transportation, Infrastructure, and Capitals Joint Appropriations Subcommittee

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Technology Reinvestment Fund Requests

- ▶ Division of Health Care Promotion and Chronic Disease Prevention
Data Integration Project: FY 2016 \$500,000 and FY 2017 \$500,000
 - ▶ Goals:
 - ▶ Integrate 5 data collection systems for 8 programs into 1
 - ▶ Create a single web-based, integrated electronic data management system
 - ▶ Increase operational efficiencies for Providers and Sub-Contractors
 - ▶ Decrease administrative burden of data entry for Providers
 - ▶ Increase efficient use of data to inform policy decisions
- ▶ Data Collection Software System Review - FY 2016 \$500,000
 - ▶ Goals:
 - ▶ Contract with a national firm with public health and IT experience
 - ▶ Help IDPH with short and long-term strategies for system consolidation and replacement
 - ▶ Learn from other states' to understand best practices of data collection

Family Health - Why Now?

- ▶ Current state includes 5 systems
 - ▶ All operate & function independently of each other
 - ▶ Not all are web-based
 - ▶ All are unable to easily share data among programs or with the public
 - ▶ Aging technology results in costly updates and several applications pose considerable security risk
- ▶ Future state includes a single integrated system supporting 8 programs. System will be a web-based, integrated electronic data management system to include case management, referral management, risk assessment, billing, and client and population-level reporting.
- ▶ Leveraging existing federal and non-governmental funds committed for this project

IDPH Application Review

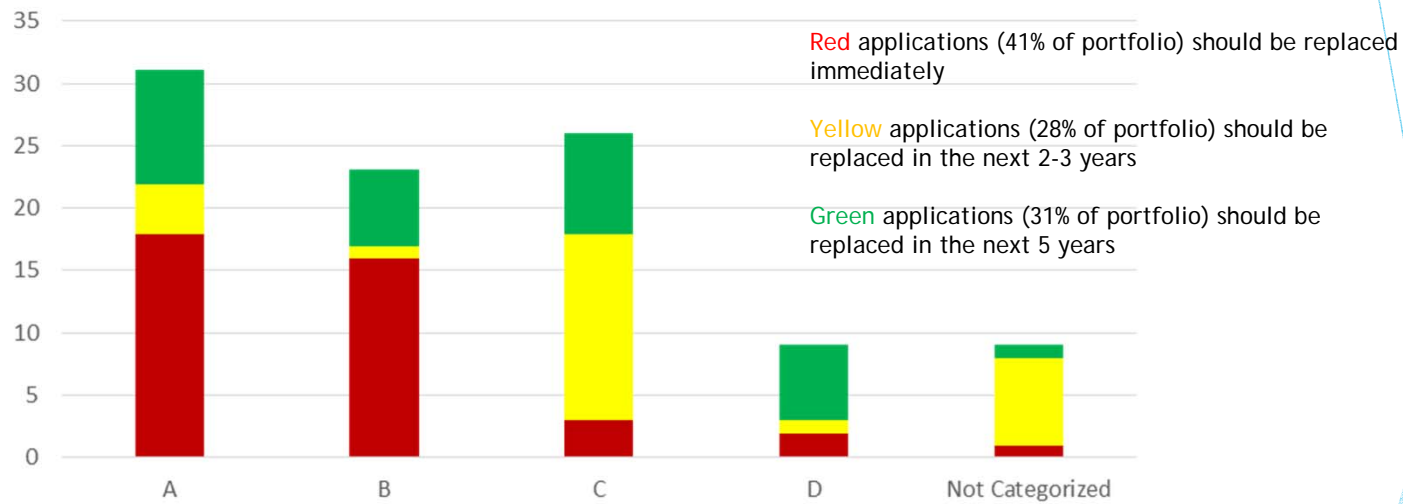
- ▶ Complete inventory of applications
- ▶ Assessment of the condition of the applications
- ▶ Cost model for applications based upon size
- ▶ Calculation of the cost to upgrade and sustain over time
 - ▶ Total Cost of Ownership (TCO)
 - ▶ Technical Debt
- ▶ Create a strategy for upgrading applications
 - ▶ Combine like functions instead of siloed applications
 - ▶ Determine long term sustainability needs

What is Technical Debt?

- ▶ **Unknown costs** of updating information technology infrastructure including networks, servers and applications
- ▶ **Unscheduled and Unfunded** system work that needs completed
- ▶ **Business Inefficiencies** due to dated applications
 - ▶ Inefficient business processes
 - ▶ Data not available or hard to get
 - ▶ Poor Customer Service
- ▶ **Increased support costs** due to outdated technologies
- ▶ **Security Risks** due to outdated, unsupported applications and operating systems

What is technical debt?

Count of Applications by Size



	A	B	C	D
One-Time	\$9,500	\$50,000	\$395,000	\$2.4M
Ongoing	\$9,000	\$41,000	\$180,000	\$875K

Components of Application Total Cost of Ownership (TCO)

One-Time Replacement

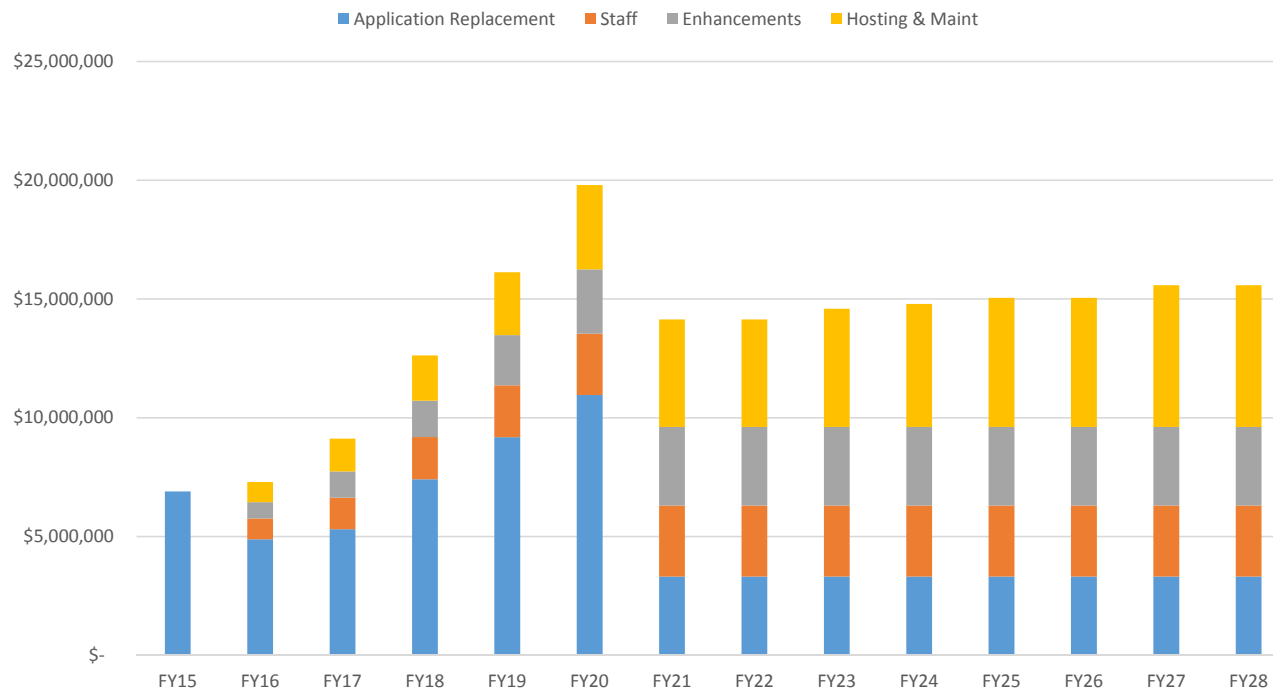
- ▶ Software Acquisition & Implementation
- ▶ Data Migration
- ▶ IDPH Program Staff (Backfill)

Annual Ongoing

- ▶ Depreciation
- ▶ Enhancements
- ▶ Hosting
- ▶ IDPH Program Staff (Support)
- ▶ Infrastructure Maintenance
- ▶ Licensing
- ▶ Maintenance
- ▶ Security

A Different Approach

Active Application Portfolio Risk Management



System Assessment Goals

- ▶ Identify programs across IDPH that have similar functional needs
- ▶ Create strategies for acquiring systems to fulfill those needs
- ▶ Determine strategies to integrate and share data more easily
 - ▶ Health Information Network
 - ▶ Standards-based data collection
 - ▶ Make data readily available
- ▶ Acquire funding sources to support TCO

How Did We Get Here?

- ▶ Lack of understanding application total cost of ownership (TCO)
- ▶ Limited funding for new system acquisition
- ▶ Siloed funding streams based upon Programs not functions
- ▶ Lack of sustainable ongoing funding

Next Steps

- ▶ Educate & inform staff regarding application TCO.
- ▶ Assess IDPH business functions to determine areas where applications can be combined to improve customer service, increase efficiency and where possible, reduce debt.
- ▶ Develop plan to actively reduce & manage IDPH technical debt.
- ▶ Evaluate grant applications & requests for new applications to ensure funding is addressed for full scope of application acquisition, implementation and depreciation.
- ▶ Reduce IDPH technical debt.